

Allocation of projects, International Student Practice 2017, Stage 2

Flerov Laboratory of Nuclear Reactions (FLNR)

| № | Supervisor | Project name | Student | Student's country |
|----|--|---|---------------------------|-------------------|
| 1. | A. Artyukh B. Erdemchimeg | Total reaction cross sections for ${}^6,8\text{He}$ and ${}^8,9\text{Li}$ nuclei at energies of (25-45) A MeV on ${}^{\text{nat}}\text{Al}$ and ${}^{\text{nat}}\text{Pb}$ | Madalina Ravar | Romania |
| 2. | O. Orelovitch | Scanning electron microscopy methods in the study of micro- and nano-objects | Vojtech Vanecek | Czech Republic |
| | | | Barbora Krivova | Czech Republic |
| | | | Pavel Slosar | Czech Republic |
| | | | Dragana Biliansa Dreghici | Romania |
| 3. | G. Kaminski | Production of radioactive ion beams and light exotic nuclei study at ACCULINNA-2 separator | Piotr Nowak | Poland |
| | | | Oliwia Ziolkowska | Poland |
| | | Introduction to β -delayed particle spectroscopy by the OTPC (Optical Time Projection Chamber) technique | Justina Novakova | Slovakia |
| | | | Joanna Furtak | Poland |
| 4. | B. Zalewski | Light ion detection at ACCULINNA ion separator | Ada Rynkiewicz | Poland |
| | | | Jakub Malczewski | Poland |
| 5. | L. Krupa | Determination of masses of the super heavy elements in the experiments on synthesis of 112 and 114 elements using the reactions ${}^{48}\text{Ca}+{}^{242}\text{Pu}$ and ${}^{48}\text{Ca}+{}^{244}\text{Pu}$ | Arkadiusz Siwec | Poland |
| | | Production and spectroscopic investigation of new neutron-rich isotopes near the neutron N=126 shell closure using the multinucleon transfer reactions | Ondrej Casar | Czech Republic |
| | | Monte-Carlo simulation of fusion and multinucleon transfer reactions in the MEDIPIX detector using the GEANT4 | Jakub Indrei | Czech Republic |
| 6. | E. Kozulin K. Novikov | Measurement of mass-energy distributions of fission fragments using the time-of-flight method | Filip Rychnovsky | Czech Republic |
| | | | Cristina Clisu | Romania |
| 7. | A. Svirikhin | Neutron emission from spontaneous fission of heavy elements at FLNR | Mihaela Tania Denisa Mot | Romania |
| | | | Adina Breaban | Romania |
| 8. | M. Milewicz A. Olejniczak | XPS and Raman spectroscopy of swift heavy ion-irradiated carbon nanomaterials - from sample preparation to spectrum analysis | Adam Bronis | Slovakia |
| | | | Marek Orzel | Poland |
| | | | Jadwiga Najder | Poland |
| | | | Konrad Rotnicki | Poland |

Frank Laboratory of Neutron Physics (FLNP)

| Nº | Supervisor | Project name | Student | Student's country |
|-----|-------------------------------------|---|------------------------|-------------------|
| 9. | N. Bazhazhina | Non-destructive analysis of element and isotope composition by neutron spectroscopy methods | Ioana Lalau | Romania |
| 10. | I. Ruskov | Neutron- and gamma-ray spectrometry | Andreea Cojocaru | Romania |
| | | | Claudia Olaru | Romania |
| 11. | I. Bobrikov S. Sumnikov | Precision investigation of modern crystalline materials by neutron diffraction method | Angel-Theodor Buruiana | Romania |
| 12. | M. Frontasyeva W. Badawy | Neutron activation analysis for life sciences | Terezia Eckertova | Slovakia |
| | | | Milos Doktor | Slovakia |
| | | | Jakub Dolniak | Slovakia |
| | | | Filip Vobr | Czech Republic |
| | | | Michal Piotrowski | Poland |
| 13. | A. Kobzev M. Kulik | Ion beam analysis | Mariusz Wtulich | Poland |
| | | | Marta Zalewska | Poland |
| 14. | K. Ludzik | Small angle scattering method applied to biological macromolecules and colloids | Marta Zalewska | Poland |
| 15. | A. Rajewska | Zgłoszenie tematu praktyki studenckiej w okresie 2-22 lipca 2017 roku | Marek Liedtke | Poland |

Bogoliubov Laboratory of Theoretical Physics (BLTP)

| Nº | Supervisor | Project name | Student | Student's country |
|-----|---------------------------------|--|-------------------|-------------------|
| 16. | Yu. Shukrinov | Computer simulation of tunneling characteristics of superconducting nanostructures | Marina Cuzminschi | Romania |
| 17. | M. Hnatic R. Remecky | Quantum field theory methods in non-linear stochastic dynamics | Andrei Butuza | Romania |
| | | | Mihaela Parvu | Romania |
| 18. | D.E. Alvarez-Castillo | Constraining the Neutron Star Mass and Radius Relation | Kristian Vitovsky | Czech Republic |
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Dzhelepov Laboratory of Nuclear Problems (DLNP)

| Nº | Supervisor | Project name | Student | Student's country |
|-----|---|---|-------------------|-------------------|
| 19. | R. Vespalec P. Tichy M. Zeman J. Svoboda | Transmutation of spent nuclear fuel | Vasile Sevestrean | Romania |
| | | | Jana Kittnerova | Czech Republic |
| | | | Jana Ulmanova | Czech Republic |
| | | | Pavel Suk | Czech Republic |
| | | | Vojtech Micek | Czech Republic |
| | | | Simon Majer | Czech Republic |
| 20. | A. Kobets | Low Energy Particle Toroidal Accumulator (LEPTA) | Elena Hanu | Romania |
| 21. | P. Horodek | Positron annihilation spectroscopy in material research | Ana Chiriacescu | Romania |
| | | | Blazej Glowacki | Poland |
| | | | Pawel Jagoda | Poland |
| | | | Mateusz Nowak | Poland |
| 22. | K. Siemek | Positron lifetime spectroscopy in materials structure studies | Daria Pogoda | Poland |
| | | | Michal Leibner | Czech Republic |

Laboratory of Radiation Biology (LRB)

| Nº | Supervisor | Project name | Student | Student's country |
|-----|---|---|---------------------|-------------------|
| 23. | P. Blaha | Analysis of high-LET radiation-induced HPRT mutations in mammalian cells | Barbora Harokova | Czech Republic |
| | | | Simona Dirleci | Romania |
| | | | David Constantin | Romania |
| | | | Alexandru Magureanu | Romania |
| 24. | T. Bulanova E. Kruglyakova | Detection and study of the formation and repair of DNA double-strand breaks after irradiation | Lubomir Gorbatenkov | Czech Republic |
| | | | Andreea Lefterovici | Romania |
| | | | Ioana Diana Nedea | Romania |
| 25. | Yu. Severyukhin D. Utina K. Lyakhova | Open field behavior and habituation in rats irradiated | Tomas Prasek | Czech Republic |

Veksler and Baldin Laboratory of High Energy Physics (VBLHEP)

| Nº | Supervisor | Project name | Student | Student's country |
|-------------------------|------------------|---|----------------------|-------------------|
| 26. | K. Roslon | Multiplexer used for measuring temperatures in a TOF detector | Adam Kubiela | Poland |
| 27. | M. Peryt | Slow control | Pawel Antkowiak | Poland |
| | | | Aleksandra Bedelek | Poland |
| | | | Agnieszka Borucka | Poland |
| | | | Agnieszka Domalewska | Poland |
| | | | Izabela Dusza | Poland |
| | | | Barbara Kędzierska | Poland |
| | | | Radosław Krzosa | Poland |
| | | | Aleksander Kuban | Poland |
| | | | Gabriela Moryc | Poland |
| | | | Filip Protoklitow | Poland |
| | | | Szymon Rowiński | Poland |
| | | | Pawel Rybak | Poland |
| | | | Ashima Vashistha | Poland |
| | | | Tomasz Zalewski | Poland |
| | | | Klaudia Zardzewiala | Poland |
| | | | Maciej Czarnynoga | Poland |
| Tomasz Kowalski | Poland | | | |
| Jan Wojcik | Poland | | | |
| Aleksandra Fliszkiewicz | Poland | | | |

Laboratory of Information Technologies (LIT)

| Nº | Supervisor | Project name | Student | Student's country |
|-----|--|---|-------------------|-------------------|
| 28. | A. Ayriyan I. Hristov | Introduction to parallel computing for the simulation of the manybody system dynamics in the Heterogeneous cluster HybriLIT | Kristyna Zoubkova | Czech Republic |
| | | | Jakub Svoboda | Czech Republic |
| | | | Dominik Skubla | Czech Republic |
| 29. | A. Wojciechowski | Fission of U-238 and Pu-239 production in subcritical sets | Pawel Karpowicz | Poland |
| | | | Maciej Konieczny | Poland |